



The Kenya Power & Lighting
Co. Ltd

TITLE:

**SPECIFICATION FOR TOOLS
FOR INSPECTION & TEST
OF TREATED WOOD POLES**
Part 1: Increment Borer

Doc. No.

KPLC1/3CB/TSP09/021-1

Issue No.

1

Revision No.

0

Date of Issue

2010-11-19

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Issued by: Head of Section Tech Stds & Specs

Authorized by: Head of Department, R&D

Signed:

Signed:

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0.1 Circulation List

COPY NO.	COPY HOLDER
1	Research & Development Manager
2	Procurement Manager
3	Stores & Stock Control Manager
4	Senior Wood Scientist

0.2 Amendment Record

Rev No.	Date (YYYY-MM-DD)	Description of Change	Prepared by (Name & Signature)	Approved by (Name & Signature)

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FOREWORD

This specification has been prepared by the Research and Development Department in collaboration with the Wood Scientist both of The Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Increment Borer. It is intended for use by KPLC in purchasing the equipment.

It is the responsibility of the Supplier to ensure that the offered design is of the highest quality and guarantees excellent service to KPLC. The supplier shall submit information which confirms satisfactory service experience with products which fall within the scope of this specification.

1. SCOPE

This specification is for increment borer to be used to determine the level of penetration of the preservative in treated wooden poles (both creosote & CCA treated).

2. REFERENCES

The following standard contains provisions which, through reference in this text constitute provisions of this specification. Unless otherwise stated, the latest editions (including amendments) apply:

BS 2054: Specification for augers and auger bits

3. TERMS AND DEFINITIONS

The terms and definitions in the above standards apply in this specification.

4. REQUIREMENTS

4.1 SERVICE CONDITIONS

The Increment Borer shall be suitable for use outdoors in tropical areas with average ambient temperature of +30°C with a minimum of -1°C and a maximum of +40°C and humidity levels of up to 90%.

4.2. DESIGN AND CONSTRUCTION

4.2.1. The Increment borer shall be designed for measurement of preservative penetration in treated timber/wooden poles.

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- 4.2.2. The Increment Borer shall have a borer bit, an extractor and a grip-friendly handle.
- 4.2.3. The Increment Borer shall be produced with high quality steel with PTFE one-coat on the borer bit to protect against rust and resin and to reduce friction. Materials used in the borer bit shall be to BS 2054.
- 4.2.4. The borer shall have a barrel-shaped tip to ensure an easy start and removal from the wood.
- 4.2.5. The Increment Borer extractor shall be made of stainless steel and metal knobs.
- 4.2.6. The Borer shall have a hardened rubber cap, forged with extractor so it won't work loose.
- 4.2.7. The Increment borer shall have a sharpening kit for each piece.

5. TESTS AND INSPECTION

- 5.1 Copies of previous certificates by the relevant National Testing/Standards Authority of the country of manufacture (or ISO/IEC 17025 accredited laboratory) shall be submitted with the offer for evaluation (all in English Language).
- 5.2 Quality Certificates for the increment borer to be supplied shall be submitted to KPLC for approval before shipment/delivery of the goods.
- 5.3 On receipt of the Increment Borers, KPLC will inspect them and may perform or have performed any of the relevant tests in order to verify compliance with the specification. The supplier shall replace without charge to KPLC, any Increment Borer which upon examination/inspection, test or use fail to meet any or all of the requirements in the specification.

6. MARKING, LABELLING AND PACKING

- 6.1 The following information shall be marked legibly & indelibly on each Increment Borer:-
a) The manufacturer's name or trade mark;
b) The type reference number;
c) The serial number;
- 6.2 The instructions for handling and use (in English Language) shall be included in each package.
- 6.3 The Increment Borer shall be packed in a manner so as to protect it from damage during transportation and storage.

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ANNEX A: Guaranteed Technical Particulars (to be filled and signed by the Supplier and submitted together with copies of manufacturer's catalogues, brochures, drawings, technical data, sales records and copies of certificates/test reports for tender evaluation)

Tender No.

Clause number	Bidder's offer (indicate full details of the offered equipment for each requirement of the specification)
1	
2	
3	
4.1	
4.2.1	
4.2.2	
4.2.3	
4.2.4	
4.2.5	
4.2.6	
4.2.7	
5.1	
5.2	
5.3	
6.1	
6.2	
6.3	

.....
Supplier's Name, Signature, Stamp and Date

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1
2
3

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